

IN THE CLAIMS

Please cancel claim 1 and add new claims 9-11 as follows.

Claims 1-8. Cancelled

9. (New) A turbine rotor comprising:

a coolant flow path formed through a plurality of disc shaped members coupled in an axial direction by means of stacking bolts with a stacking plane disposed between the disc shaped members; and

a heat resisting pipe inserted in the coolant flow path, wherein

the heat resisting pipe has a ring shaped projecting portion; and

the coolant flow path has a hole portion contacting with the ring shaped projecting portion on the stacking plane of a disc shaped member.

10. (New) An assembling method of a turbine rotor comprises the steps of:

forming a coolant flow path through a plurality of disc shaped members coupled in their axial direction by means of stacking bolts with a stacking plane disposed between the disc shaped members;

providing a hole portion in a periphery of the coolant flow path;

providing a heat resisting pipe having a ring shaped projecting portion;

inserting the heat resisting pipe in the coolant flow path; and

causing the ring shaped projecting portion to contact the hole portion of the coolant flow path on the stacking plane of a disc shaped member.

11. (New) A cooling method of a high temperature portion of a turbine rotor comprising the steps of:

forming a coolant flow path through a plurality of disc shaped members coupled in an axial direction by means of stacking bolts with a stacking plane disposed between the disc shaped members;

providing a hole portion in a periphery of the coolant flow path;

providing a heat resisting pipe having a ring shaped projecting portion;

inserting the heat resistant pipe into the coolant flow path whereby the ring shaped projecting portion of the heat

resistant pipe contacts the hole portion of the flow path on the stacking plane of a disc shaped member; and

supplying a coolant through the coolant flow path in which the heat resistant pipe is inserted.